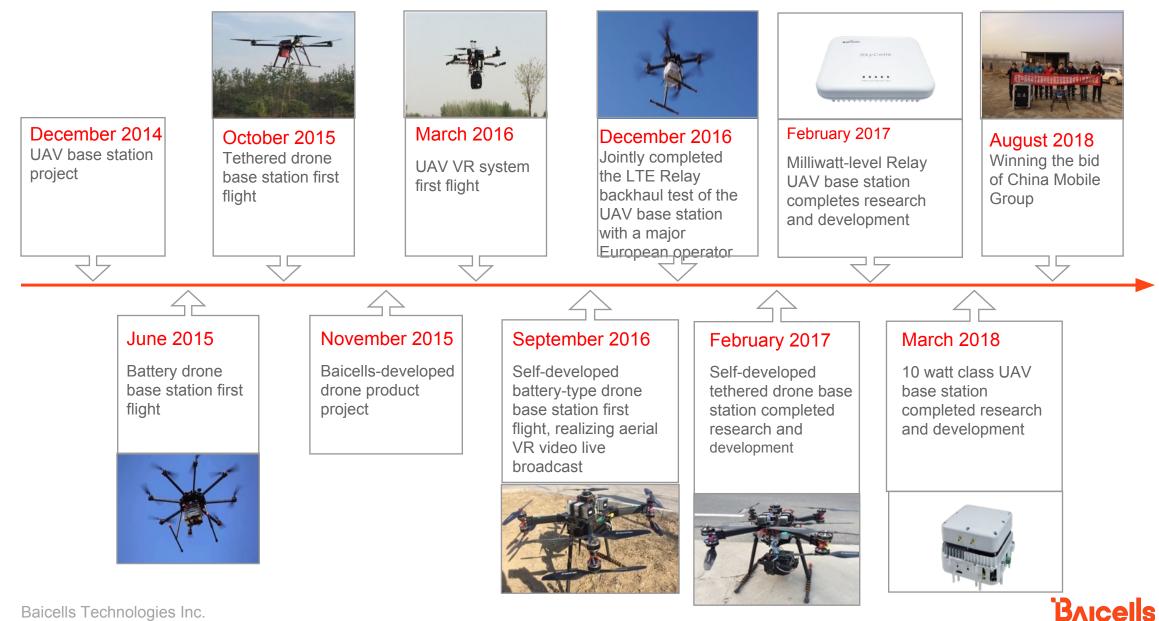


Connect More With Less

UAV Innovative Product Introduction ----To DIGI

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Baicells' Drone Development History



Product Introduction



SkyCells-T Series --15Kg Level Tethered UAV

Special Feature

high altitude	High precision	High speed	S
Service ceiling	Vertical:±0.5m	Ascend: 5 m/s	
4000m	Horizontal: ±1 m	Decend: 3m/s	
High intelligence Route planning Automatic flight	High interaction One-button takeoff One-button Return-to-Home	Modular Compatible base station Photoelectric load	

Technical Parameters

Body material	Body structure	Symmetrical motor wheelbase	Anti-vibration ability	Maximum flight height	Flight status	Working environment temperature
carbon fiber	Six-axis Six-propellers	1600mm	Pitch roll ±1.5°	100/200m	Real-time display Abnormal alarm Automatic return	-20~40°C



Self weight 25KG



Load 15KG



48V DC



Operating Voltage Wind resistance 10m/S



Maximum flight time 160h <10h (ECO mode)

Dimension 120*120*60 (cm)



Влісеlls

SkyCells-B Series-- 3Kg Load Drone

			Self weigh 5.5KG		ating Voltage 24V DC	Dimension 60*60*60 (cm)	high altitude Service ceiling 4000m	High precision Vertical:±0.5m Horizontal: ±1 m
Technical	Parameters	S	Load 3KG	70 min 60 min	inuous flight time utes (1kg load) utes (2kg load) utes (3kg load)	Wind resistance 10m/S	High intelligence Route planning Automatic flight High speed Ascend: 5 m/s Decend: 3m/s	Multiple redundancyPropeller redundancyModularCompatible base stationPhotoelectric load
Body material	Body structure	Symmetrical motor wheelbase	Anti-vibratio n ability	Maximum flight height	Flight status	Working environment temperature	High interaction One-button takeoff	High integration Easy to
carbon fiber	Four-axis four-propeller s	1100mm	Pitch roll ±1.5°	1000m	Real-time display Abnormal alarm Automatic return	-20~40°C	One-button Return-to-Home	implement Rapid deployment

Special feature

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Self weight 3.9Kg

Transmit power 2*10W

Working frequency UL/DL: 2555-2655MHz







Operating Voltage 48V DC

Average power consumption 190W

Return method Network port, optical port, wireless 3G/4G (optional)

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Networking mode Independent networking Return core network

R

size 18*18*5(cm)

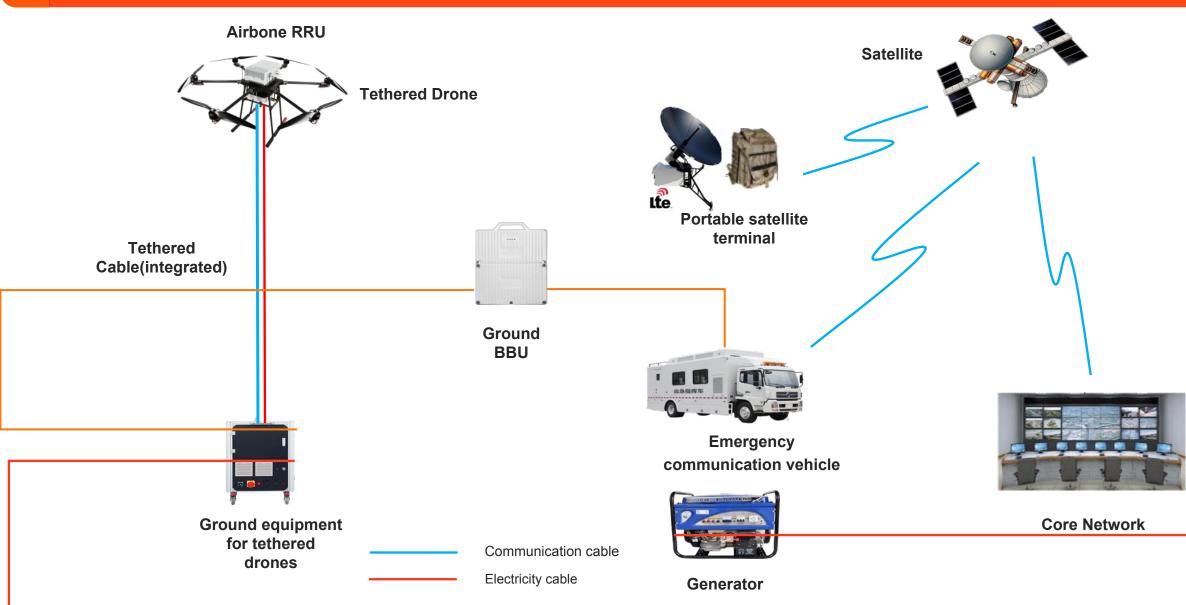






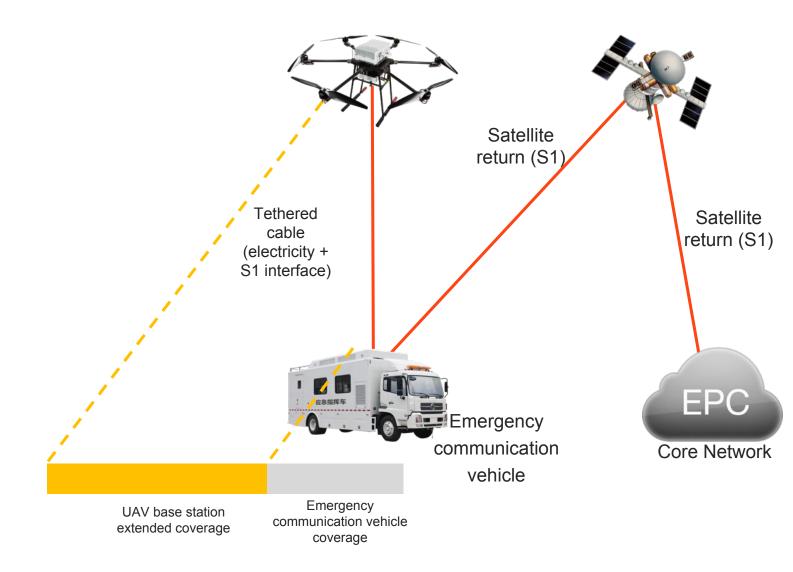


SkyCells-T series tethered drone emergency communication solution overall system architecture





SkyCells-T series of tethered drone base stations cooperate with emergency communication vehicle deployment basic plan

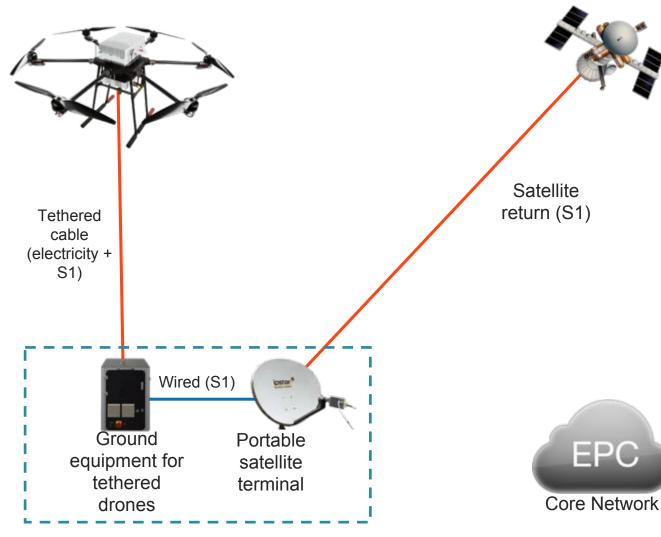


- Emergency communication vehicle supplies power to the tethered drone base station.
- Backhaul remote core network by using emergency communication vehicle satellite backhaul capability.
- The tethered UAV base station S1 interface is connected to the satellite communication module of the emergency communication vehicle via the tethered cable.
- Tethered UAV carrying base station
 flight expands coverage of
 emergency communication vehicles.

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Tethered drone base station



- Backhaul remote core network with portable satellite terminal.
- The power of the tethered drone base station is provided by the ground equipment of the system, which may be a gasoline generator or a battery pack.
- The base station S1 interface above the drone is docked with the portable satellite terminal through the tethered ground device.
- Rapid deployment of tethered drone base stations, tethered ground equipment, and portable satellite terminals by airdropping.



Advantages of a tethered drone base station



Relative emergency communication vehicle Base station deployments are higher Π (up to 200m) for better coverage through direct-view propagation and lift-off effects System deployment is more flexible and simple (quick deployment in ten minutes, small pickup trucks can carry drones) Can be carried by light vehicles (the

- drone moves with the car), even airdrop deployment
- Lower system cost
- □ System operation is simpler,

deployment and recycling is faster



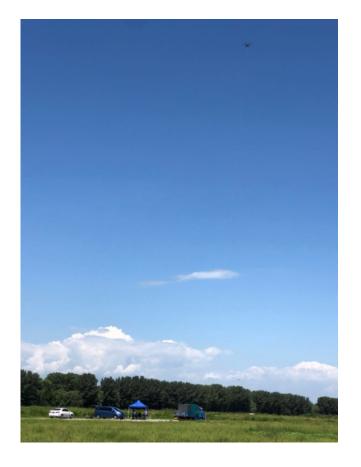


SkyCells-T series – China Mobile High Altitude Base Station Project

As the provider of China Mobile's first phased high altitude UAV base station system, Baicells' drones were equipped with Huawei RRU base stations (12kg) according to customer requirements. They were in flight continuously for 4 hours at a height of 200 meters and 4 hours at a height of 100 meters.









SkyCells-T series UAV Base Station System Acceptance with China Mobile

Location: Sichuan Province / Anhui Province / Shanxi Province / Zhejiang Province

Purpose: Acceptance of the delivery equipment of China Mobile's high-altitude base station project

Objective: mainly test on communication service and the VoLTE voice service function after the base station reaching high altitude.

Result: The acceptance was successfully completed and approved by mobile users in all provinces and cities.













SkyCells-T Series Tethered UAV Emergency Communication System User Acceptance Case

Specialized On-site Support Services:

Baicells can provide customers with professional service and technical training. In order to ensure the rapid recovery of the communication infrastructure, full on-site technical support services are provided during the period of use of UAV.

Application equipment:

Six-blade drone, equipped with emergency communication base station, is fully functional with emergency communication vehicles.

Satellite Vehicle Application Cases:

- In February 2019, customer technical support was provided for the project in Ziyang City, Sichuan Province.
- In April 2019, customer technical support of Qinyuan County Project in Shanxi Province was provided.
- In April 2019, Liangshan County, Sichuan Province, Forest Fire Emergency Communication Project technical services.















